

4-8-16 INPUTS H264 STAND-ALONE DIGITAL VIDEO RECORDER

**ART. SDVR004A
SDVR194B
SDVR198B
SDVR196B**



Quick Guide

This manual is to help you set up your DVR in a basic manner and playback or remote access your DVR. Please see the User Manual on included CD for more detailed instructions.

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1. Important Safeguards and Warnings

Don't place heavy objects on the DVR. Avoid dropping or striking the DVR.

Keep the DVR in a normal room environment, between 0°C ~ +45°C, away from any direct heat source like direct sun light. Please do not install the DVR in a damp, smoky, or dusty environment. Do not let solids or liquids fall into or infiltrate the DVR.

Please install the DVR on a flat surface.

Use within the power and surge protection rating.

Don't disassemble or try to repair the DVR by yourself. Attempts to do so will void manufacturer's warranty!

2. Package Contents

Your DVR package should come with the following items:

DVR

Remote Control

Power Adapter and Power Cord

CD (with full manual and DVR software)

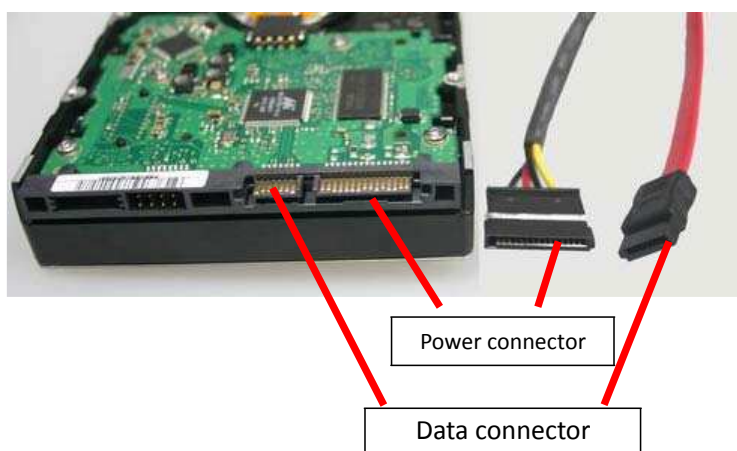
This Quick Guide

Mouse (optional)

3. Hard Disk Installation

Your HDD needs to be installed before you can start recording. Some DVRs come with pre-installed hard drive. Please install HDD as following:

- 1) Open case by removing screws from back and sides of DVR.
- 2) Please connect the HDD in the standard way, screwing the HDD into the HDD brackets or DVR base. All necessary cables are delivered with the DVR. Use instructions that came with the hard drive for exact wiring and installation. Please connect the power cable to the appropriate socket, and the data cable to its corresponding connector.
- 3) Close case and re-screw the screws to secure.



NOTE: format the HDD before first use ([7.4 HDD Management](#)).

4. Front Panel

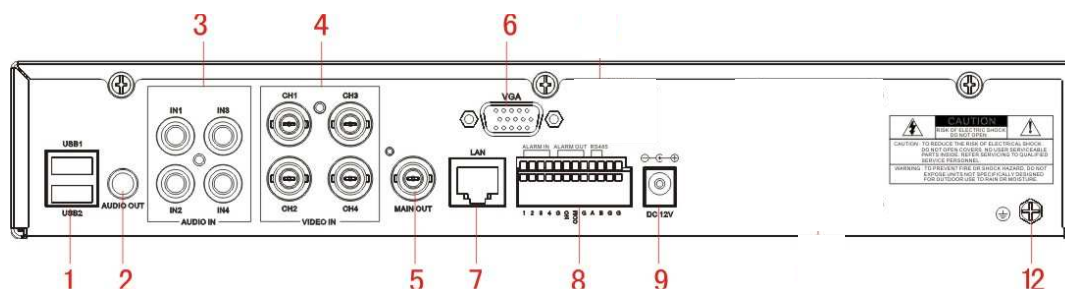
(some products have this function, please take actual machine mode as quasi)

Type	Name	Introduction
Control Buttons		Use arrow buttons to move among the menu items
Enter		Press Enter () to confirm your choice. On live view the [] button is used as PTZ control key
Menu/Exit		Access tool bar/ Hide tool bar/ Exit menu/ Exit sub menu
Rewind		Rewind video during playback
Play/Pause		Opens video search and playback menu. When the playback mode is activated, press this button to play/pause playback
Stop		Stop playback
Fast Forward		Fast forward video during playback
REC		Start or Stop manual recording
Channel Selecting Button (4CH/8CH)		Using these buttons you can choose to output video on your monitor either as a full-screen view of each of the cameras individually (channels 1 through 4/8 depending on the model) or from all channels simultaneously ()
Channel Selecting Button (16CH)	Number 0~9 Buttons/ 	Using the number buttons you can choose to output video on your monitor either as a full-screen view of each of the cameras individually (channels 1 through 9) or you can combine button "10/16" with other buttons to select channels among Channel 10 and Channel 16. Pressing the button "  " to switch display modes.
Mute ON/Mute Off		Turn on or turn off sound
Spot View		Using this button to enable auto sequencing
Power Off		Turn off the DVR
LEDs	Power LED/ REC LED/ Net LED	LED lights indicate your connection to the power supply, recording status and net status.

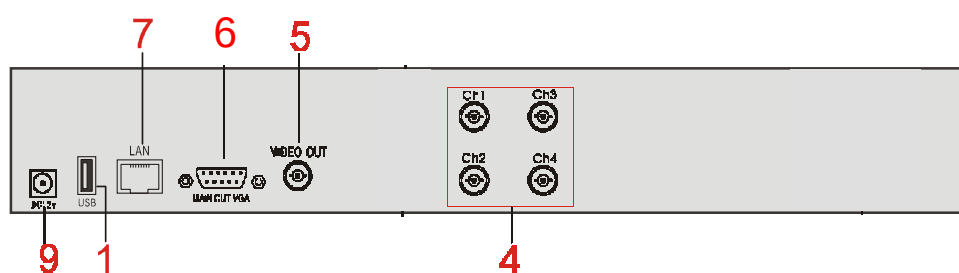
Note: on live view press the button  or  or numerical button  ten times when there is no tool bar, to switch the main menu between BNC video output and VGA video output.

5. Rear Panel (please take actual machine model as quasi)

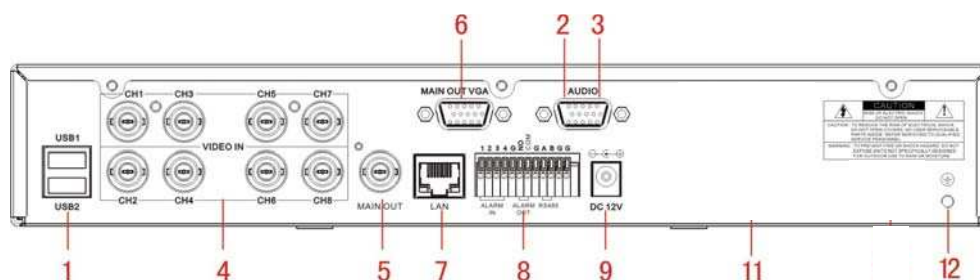
Art. SDVR194B



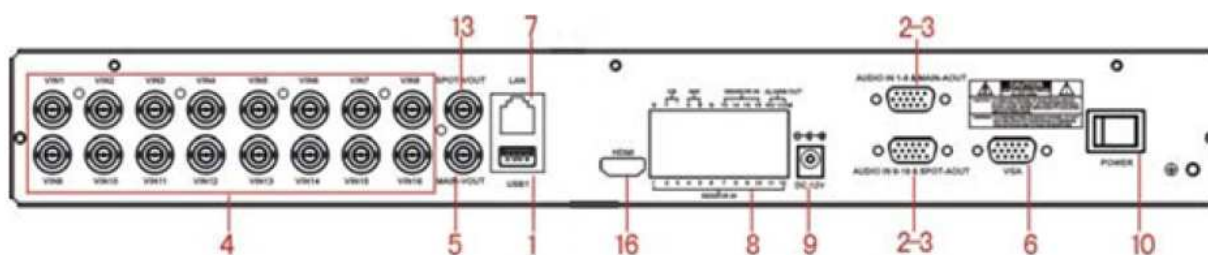
Art. SDVR004A



Art. SDVR198B



Art. SDVR196B



1. USB connectors

Use these USB ports to connect the mouse and backup devices (flash drive, DVD recorder).
Note: for some machine model USB port is on the lateral panel or on the front panel.

2. Audio Output Connector (optional)

1 channel audio output, for connecting speakers (4ch↔RCA, 8ch/16ch↔DB9)

Note: there are two video output connectors for 16 CH and there are the same as each other.

3. Audio Input Connectors (AUDIO IN 1-4/1-8/1-16)

4/8/16 channels audio input, for connecting audio signal (4ch↔RCA, 8ch/16ch↔DB9)

4. Video Input Connectors (1-4/1-8/1-16)

4/8/16 channels video input, for connecting analog video signal input, BNC (1Vp-p, 75Ω)

5. Video Output Connector

Video output for connecting monitor or TV, BNC (1Vp-p, 75Ω)

6. VGA Connector

For connecting VGA/LCD monitor

7. Ethernet Connector (optional)

RJ-45 10/100 Base-T Ethernet network

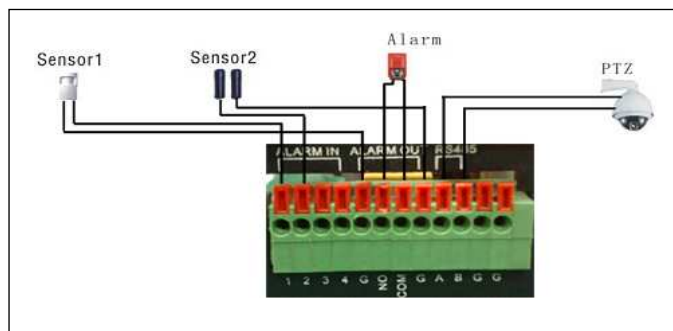
8. Alarm Input Connectors (4ch/8ch-ALARM IN 1-4/16ch-Alarm in 1-16) (optional)

For connecting to external sensor device

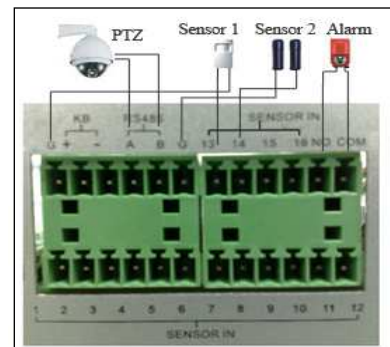
Each alarm has one input pin on the terminal block of the rear panel.

Connect positive (+) output pins of the device to the input slots (Alarm In) on the DVR terminal block (1 -4/1-16).

Connect ground (-) output pins of the device to the DVR Ground slots (G). Multiple devices can be connected to one ground slot.



4CH/8CH



16CH

Alarm Output Connectors (pin NO-COM) (optional)

For connecting to external alarm device

RS-485 Connector (pin A-B) (optional)

For connecting PTZ camera control

9. Power Input Socket (12V DC)

10. Power Switch (optional)

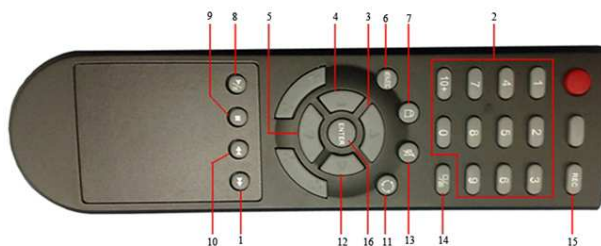
12. Ground – Ground the machine if necessary

13. Spot Video output (16ch)

16. HDMI video output

6. Remote Controller

The functions of remote keys are as the same as front panel. Detail introduction please refer to section [4 Front Panel](#).



7. Basic Operation

Note: during configuration, press button  to restore to default setting, press button  to save parameter, the parameter will take effect after clicking button .

7.1 Login System

In live view, press the button  twice or double-click right key of mouse on live view to display tool bar, it will appear the login window if the password is enabled. You can fill in user name and password to login.

Note: 1. The default password for Admin is “888888”.

2. The Auto ID is used for connecting the IE interface. For detail operation please reference appendix 6 of the detail guide CD .



7.2 Live View

Displayed on the live screen are the real time images, name and state of each channel. Channel icons indicate the following:



Icon indicates that the channel has detected motion in the motion detection mode.



Icon indicates that the channel has detected sensor alarm in the alarm mode.

● Red dot indicates that the channel is running in the mode of recording.

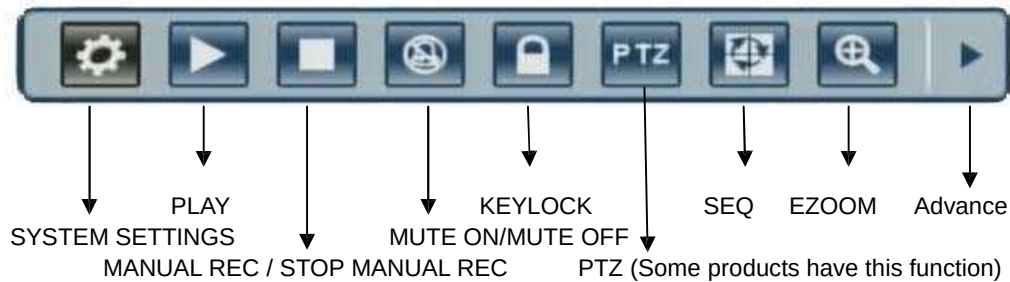


7.3 Status and Tool Bar

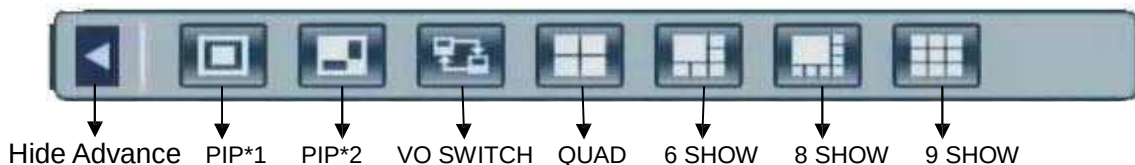
1) In live view, press the button “” once or click right key of mouse on live view to display status bar, it will appear the status bar as following.



2) In live view, press the button “” twice or double-click right key of mouse on live view to display tools bar if password is disabled. When password is available, you can see it after login.



Click the “ADVANCE” button and the screen will display the following figure:



7.4 HDD Management

If you have not yet installed a hard disk drive into the device or the device didn't read the HDD, or a new HDD didn't be formatted, or there is no space of the HDD to record, it will display an icon “” in the video preview interface. **You must format the HDD in the DVR before first using.** The steps as follows: System settings > SYSTEM > HDD management > format.



7.5 Record Setting

Click [Tool Bar→ System settings → Record] to enter [Record] menu. You can set quality, resolution, frame rate, pack time and record mode. There are three record modes: Manual Record, Always and Schedule. Always record mode will record with every channel all the time.

Frame Rate: It is possible to adjust each channel frame rate independently. Real-time recording is considered 25 frames per second (fps) for PAL and 30fps for NTSC. Depending on TV system, for 4CH and 8CH the maximum frame rate is either 200 (PAL) or 240 (NTSC) fps in CIF resolution, 100 (PAL)/120(NTSC) fps in HD1 resolution and 50



(PAL)/60(NTSC) fps in D1 resolution. For 16CH the maximum frame rate is either 400 (PAL) or 480 (NTSC) fps in CIF resolution, 200 (PAL)/240(NTSC) fps in HD1 resolution and 100 (PAL) / 120 (NTSC) fps in D1 resolution.

Please note that the recording frame rate limit varies depending upon the recording resolution selected. Even though you may set the recording frame rate here, the system will automatically downgrade the recording frame rate if it exceeds machine limitations.

Resolution: the recording resolution has three options: D1, Half D1 and CIF resolution. Standard Quality TV is equivalent to D1 quality. The resolution of each channel for recording can be adjusted independently.

7.5.1 Manual Recording

Manual recording is useful for times when you want to immediately record something on screen. To turn on manual recording, click [Tool Bar→ Manual Record] or hit the REC button on the front panel or the remote control. A red button will appear on the down left hand corner. To turn off the manual recording, hit the REC button again.

7.5.2 Schedule Recording

It allows you to create a schedule for recording tasks throughout the week, so that only certain selected events are actually recorded on the HDD.

CHANNEL: you can select all channels or just one channel.

There are three modes for recording: ALARM, NORMAL and NO RECORD. Different colors signify different recording modes: Red means alarm record, green means normal record, orange means motion record, grounding means no record.

After you complete the schedule you activate it by clicking the [] button.



7.6 Video Playback

Click [Tool Bar→ System settings → Play] to enter [Playback] menu.

Method 1: playback by date

Date input: adjust the checking date and time, and press 【Enter】 to input the number directly to adjust the year, month, date. Next, input the time in the next box, click “play” and then choose playback channel as shown in left Fig, then click “play”.

Method 2: playback by recording status:

Input the date, click【search】and you can see the recording status on this date.

Method 3: playback by file list:

Input the searching date and click 【search】 to view the recording status. Click an exact day and then click “LISTING” to see the interface of “FILE LISTING”.



7.7 File Back Up

Click [Tool Bar→ Play → Search] to enter file list. In this interface, you can back up video file. Click [←], [→], [↑] and [↓] to switch page, select the video file you want to back up and click [Backup] to back up the video file to USB disk.



7.8 PTZ Control (optional)

Double-click the right mouse button to enter tool bar menu under real-time monitoring frame, and choose "PTZ" or push "ENTER" key to enter the control frame on live view.



Under PTZ control frame press the [←] / [→] button or right click and an icon "📷" will appear at the top right corner of the screen.

[PTZ Direction Control]: under PTZ control frame, move the mouse to the upper, lower, left and right locations of the current frame, and this time, left click and hold the mouse. Enter the control area of the corresponding location.

In "📷" mode, use the mouse or the [▲] [▼] [◀] [▶] buttons on the remote control front panel to control detection.

[SPEED]: regulate the rotating step length of the PTZ by using the slide bar. This function is mainly for the controlling direction operation. The bigger the value is, the faster the rotational speed is, with values ranging from 0~63.

[IRIS —, IRIS +]: regulate the diaphragm.

[FOCUS —, FOCUS+]: bring objects into focus finely.

[ZOOM —, ZOOM+]: zooms the lens In and Out. Magnification can be changed by using the mouse wheel under the current frame.

Note: you have to configure parameters before control Pan-Tilt-Zoom and you can access PTZ setting by clicking Tool Bar→ System Setting→ PTZ.

7.9 Network Settings (optional)

To connect the DVR to the internet, certain settings must be input into the DVR. To access your DVR from the internet, you will need either a Static IP from your internet service provider (ISP) or a

router with Dynamic DNS (DDNS) capability and an account with an online DDNS service. This service is country specific, but in many countries, the manufacturer suggested service is <http://www.dyndns.com>. If the below is not clear, please contact your network administrator for help or consult the full DVR manual on the included CD.

Bring up the network settings menu via [Tool Bar→ System Setting → Network]. The four sub-menus are “network setup”, “DDNS”, “email” and “mobile”.

On the menu of “network setup” to set up network type, including Static IP/ DHCP/PPPOE.

Static IP: if this is selected, please type in an IP address, subnet mask and gateway.

DHCP: if this is selected, a DHCP server should be set within the network. A dynamic IP address will be assigned automatically and displayed in the IP Address field.

UPNP: universal plug and play. If you turn it off, you should manually mapped its port to get mapped IP address; if you turn it on, it will mapped DVR's ports automatically.

Note: you should turn on UPNP on your router before turning on UPNP on DVR.

MEDIA PORT: transfers video data between client and device. Default value is **9000**.

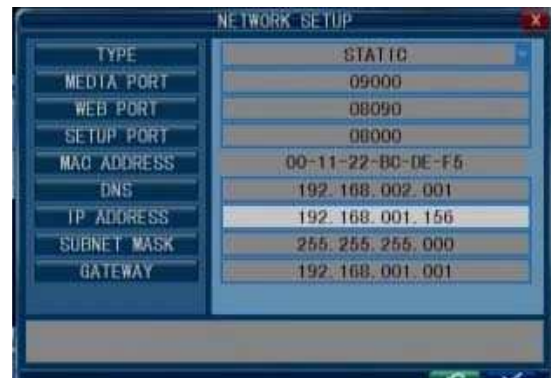
WEB PORT: sets up the port of IE browser via HTTP. Default value is **8090** but model dependent.

SETUP PORT: this port is fixed and you can't modify it, the value is **8000**.

DNS: press [Enter] and input numbers for the net mask.

Mobile Port: default value is **10510**.

IP access: including disable, forbidden, allow access.



8. Web Operation (products with LAN function)

1. Connect the DVR to the internet.

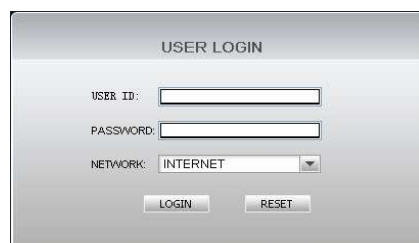
2. Make sure all the ActiveX controls for internet security on your PC are enabled. For I.E. this is through [Tools->Internet Options->Security].

3. After finishing the aforementioned settings, open the IE browser, input <http://192.168.0.x> (192.168.0.x is the setting IP address of the DVR) and confirm. If the http port of DVR setting has been changed (not 80), it's will be must to add colon + port number (assume that the current port number is P), like <http://192.168.0.x:P>, for correct visit. Then, please click “If your browser does not support the ActiveX to download, please click here”, the network will download and install the control automatically.

After connecting to the internet, IE will automatically download the file to PC. After download, an interface will prompt you to login system.

After filling in right user name and password, you can see a monitor interface as picture shows.

Default user ID is: Admin (with all administrative privileges). Default password is: “888888”.



9. Wap Connection (products with LAN function)

Note: make sure the digital video recorder connects to Internet accurately before accessing.

Open Internet Browser on mobile phone and fill in IP address of DVR. For example: if the IP address of DVR is 192.168.1.157 and its web port is 86, you can fill its address column with <http://192.168.1.157:86/wap.html>, click button ENTER. There will be a login interface. After login and configuring parameters, the interface will show as right hand.



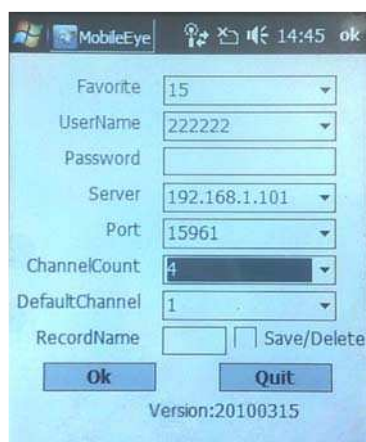
10. Mobile Phone Support (products with LAN function)

This DVR device can transmit live feed from the CCTV cameras to your mobile phone, so that you can have 'on the go' access to your surveillance system from virtually anywhere. To view, you must install a mobile operating system specific program into your mobile. The mobile programs are located on the included CD or downloaded via iTunes for the iPhone. In iTunes, please search for "MobileEye" or "MobileEye+". Please see the instruction manual for your mobile to install the program. Currently, the OS supported are: Windows CE Mobile, Nokia Symbian S60 3rd and 5th Edition OS, Google Android and Apple iPhone.

Note:

1. Prior to using this feature, you should apply for an Internet connection service for your mobile phone, such as 3G or above. Please contact your mobile service provider for details.
2. You can only watch one live feed channel at a time with your mobile phone (MobileEye software). Split mode is available only with software MobileEye+.

In the following example, we use the Windows CE mobile. The usage of other mobile programs is substantially similar. For more detailed instruction, please view full user manual on included CD. From the installation CD, install file "MobileEye.cab" or "MobileEye+.cab" onto your Windows Mobile phone. See your phone user manual for more details on installing this application. The following describes the settings for "MobileEye".



Find and execute program "MobileEye". Click the **Setting** button to setup the IP address for your DVR.

In the left screen, input the User Name, Password, Server (IP address for your DVR) and Port (default 10510).

Next, choose the channel Count for streaming data from the drop-down menu and choose the Default Channel when connecting. Choose a Record Name for your favorite files. Click OK to save the settings. To connect to the system and start watching the live feed from your CCTV cameras, click on the **Connect** button.

To choose the camera, use the **Channel** drop-down menu.

To modify settings, press the **Setting** button.



On-screen data will provide information about frame rate (fps), resolution (size) and bit rate (Kbps) of current channel.

The menu bar contains the following controls.



Directional buttons for controlling the direction of the PTZ camera view



Zoom in / out.



Iris.



Focus.



Snapshot.

11. How to use Auto ID

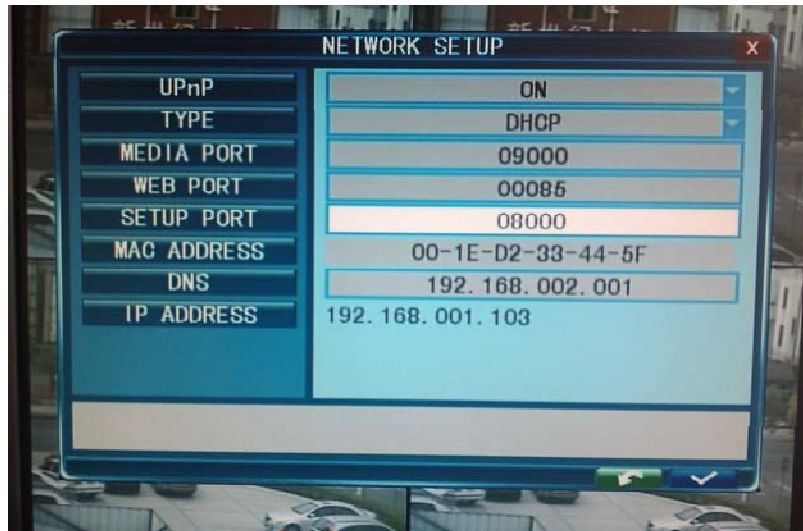
"Plug n play" Quick Guide

1. The ID number of the product has been set up in the factory. Click [tool bar]— [system setting] —[user], The screen will display user manager menu, and you will see the ID number. As following:



2. Then open the menu, click [Network]—[Other settings]—[Auto ID], to open the Auto ID.

3. About using the router to search internet. At first you should mapped the transmit codex of the router's port. Or open the UPNP, then the router will mapping the port automatic.



4. When the network is connected, input <http://www.ipremoteview.com> in the address field of the IE. Then input the ID of the DVR into the product number as below.

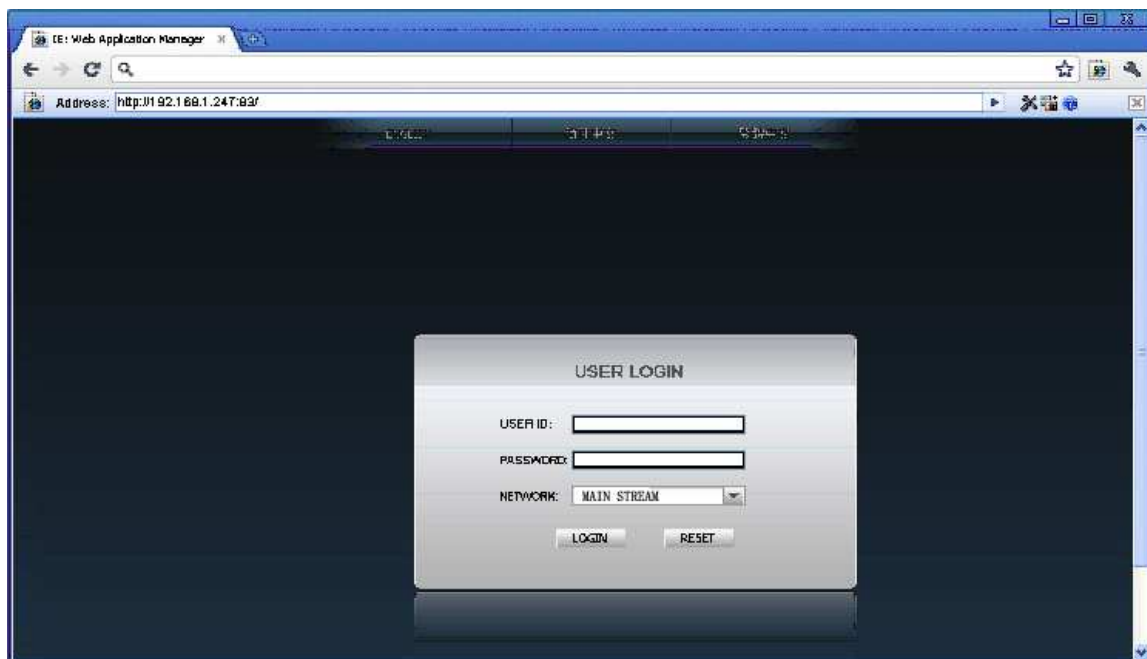
IP remote surveillance

Product ID:

Notice:

1. This page only works on Microsoft Windows IE browser.
2. If the ActiveX doesn't download, please change the security options in I.E. by going to I.E.->Tool->Internet Options->Security tab, click "Custom level..." and find item "ActiveX controls and plug-ins". Change the value of all sub-items to either "Enable" or "Prompt" to allow I.E. to install.

5. After the connection succeed. It will switch to the Web Application Manage page, as follow.



Note: please refer to the [Section 6.4 Control Download and Installation](#) for the operations thereafter.

In all cases, for more details, please refer to the electronic user's manual on the CD



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